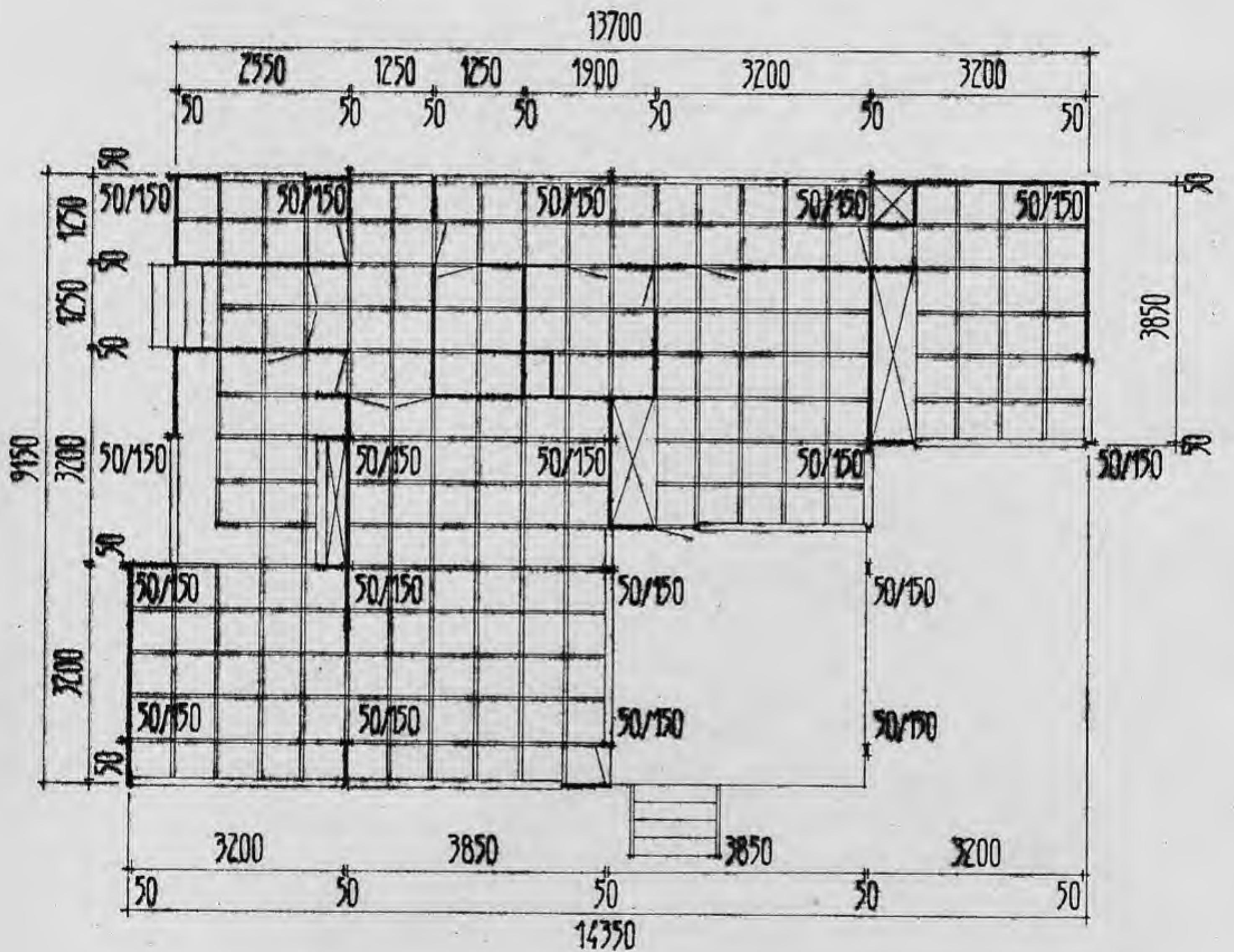
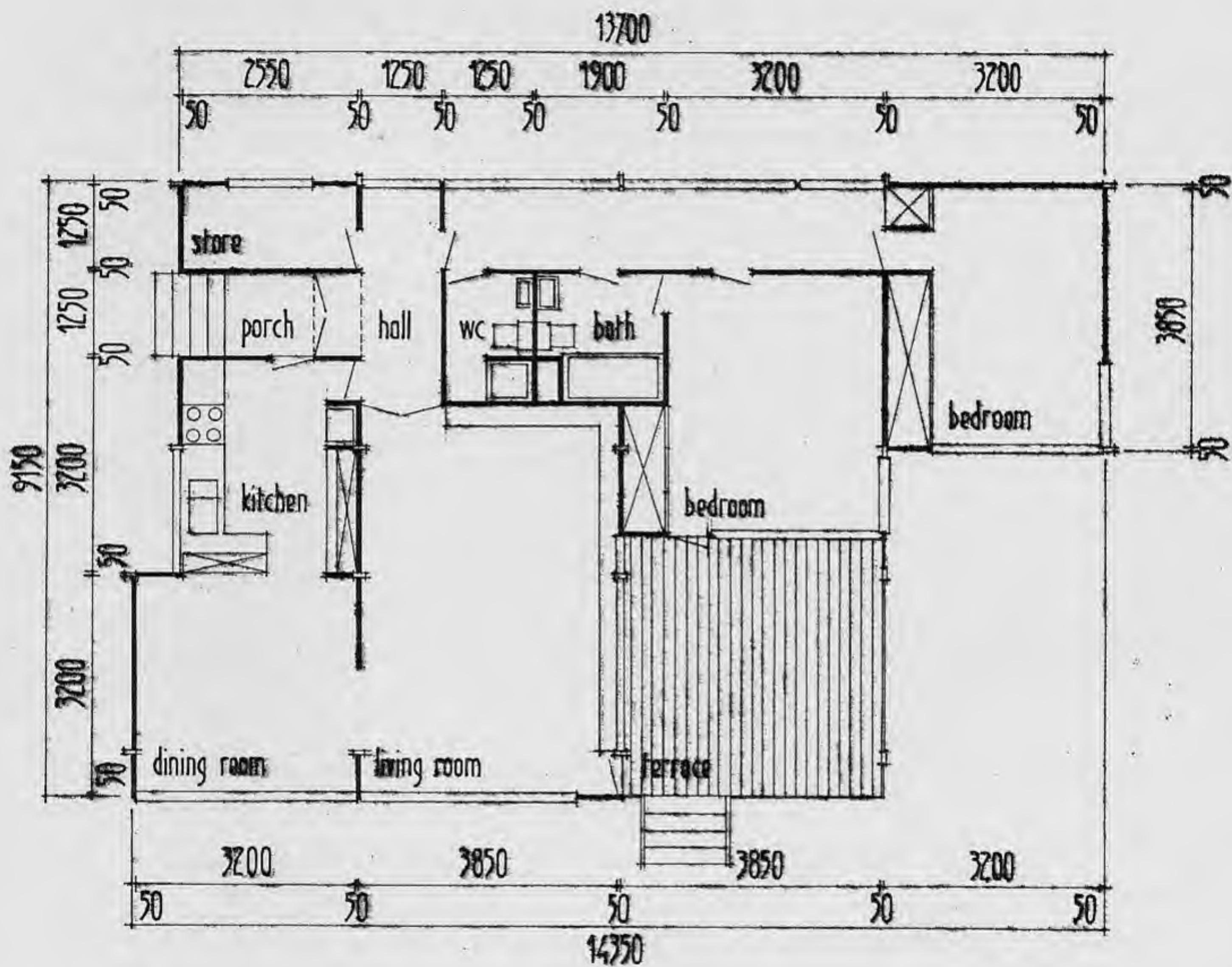


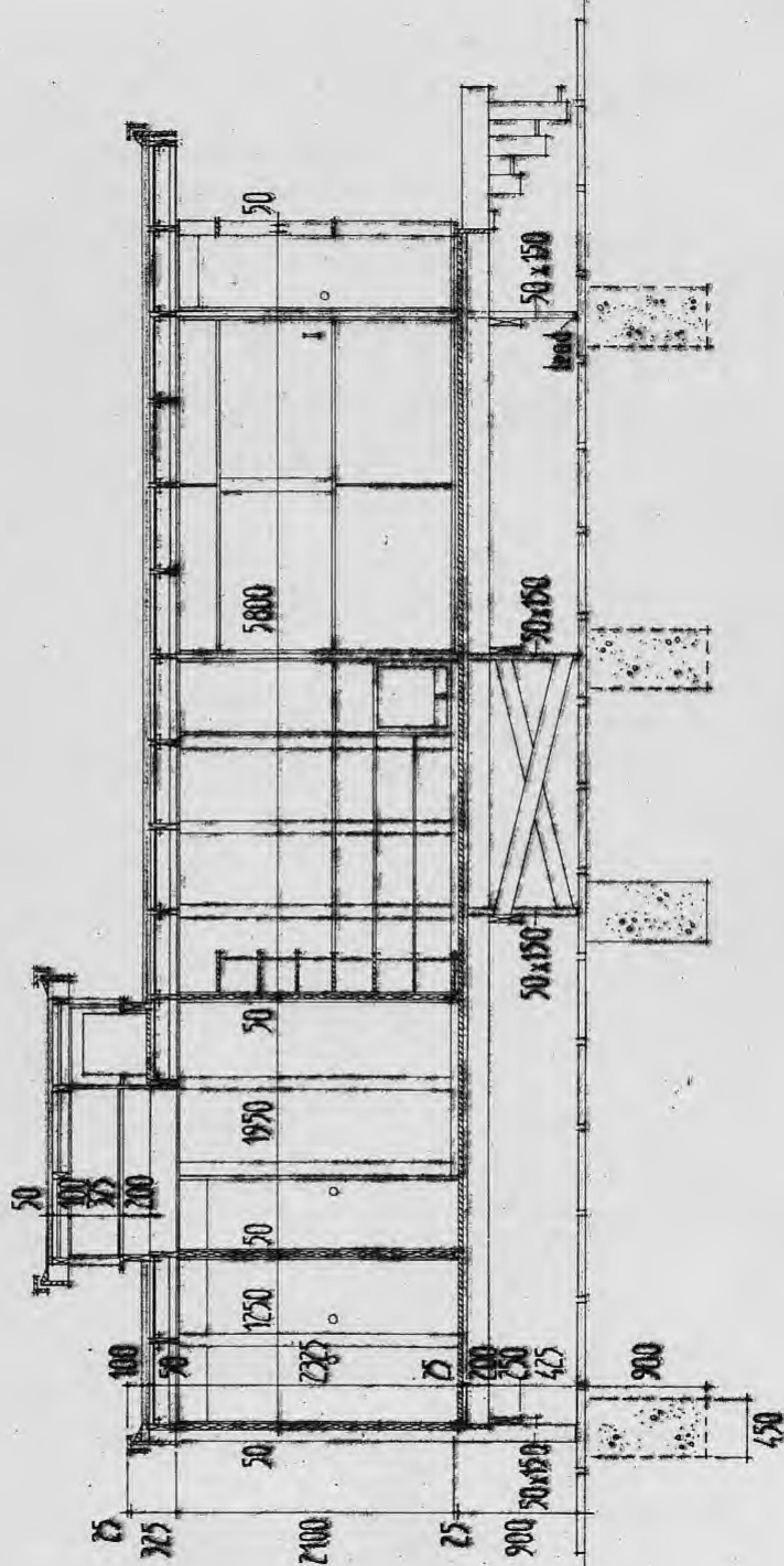
PLAN showing 650mm modular design based on the range of dimensionally co-ordinated materials assembled in their market sizes.  
SCALE 1:100



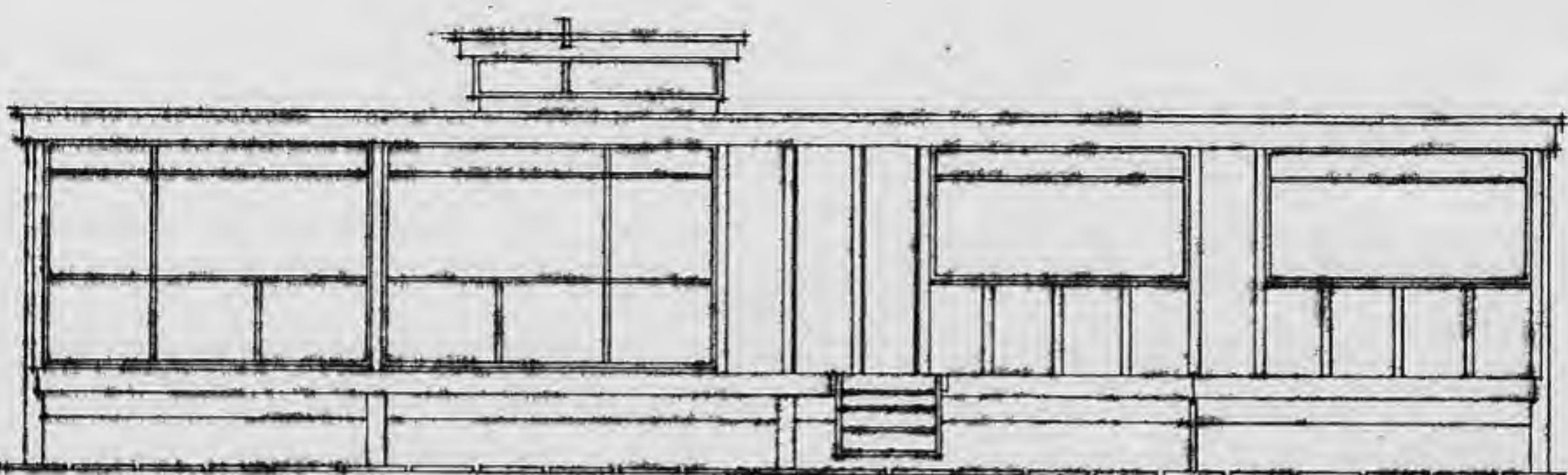
PLAN showing accommodation layout.  
SCALE 1:100



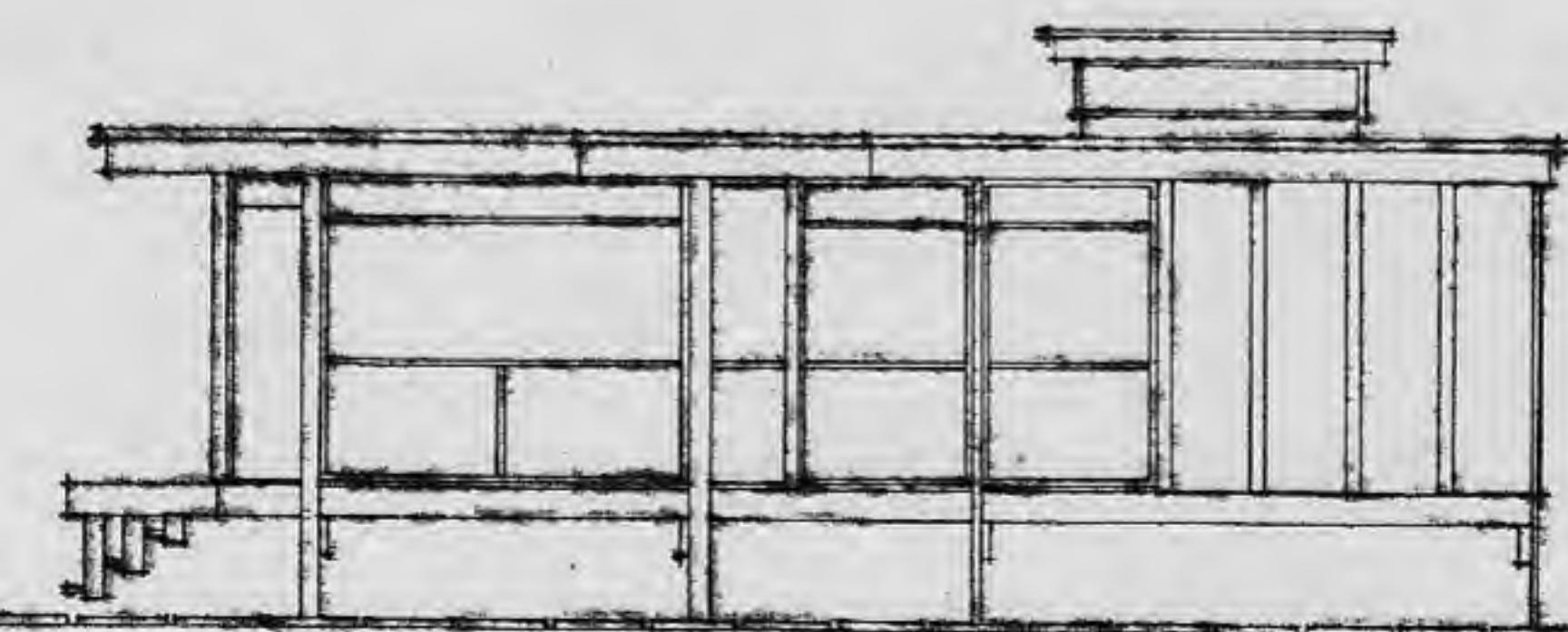
**WORKING SECTION** showing timber sections, asbestos cement sheeting (and plasterboard) and woodwool slabs, Glasol (highly-compressed, heat-treated, low-dust) sheets.



ELEVATIONS  
SCALE 1:100

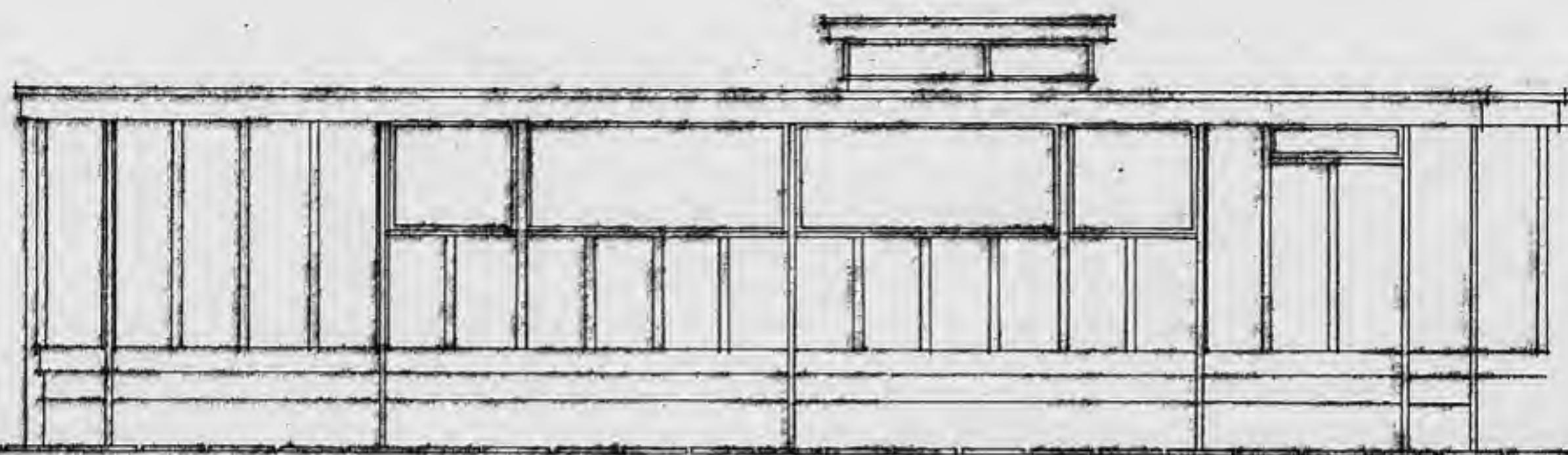


WEST

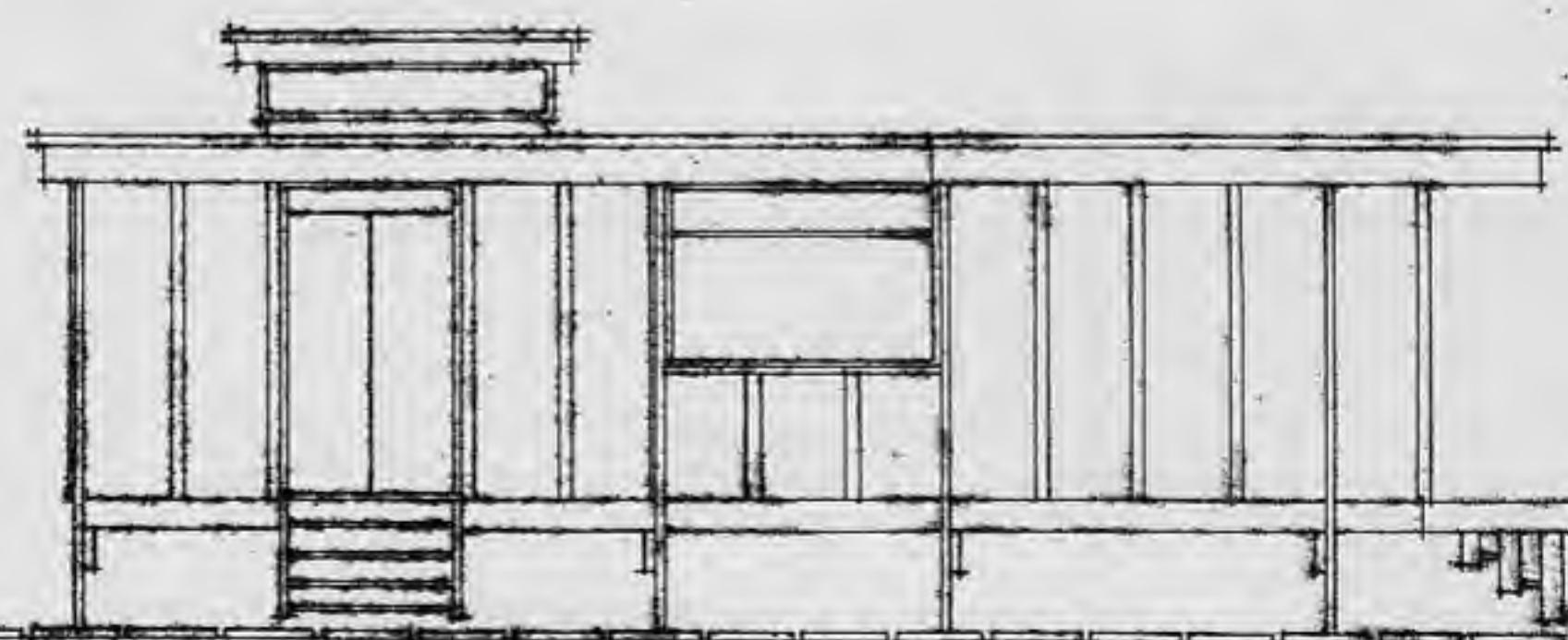


SOUTH

ELEVATIONS  
SCALE 1:100

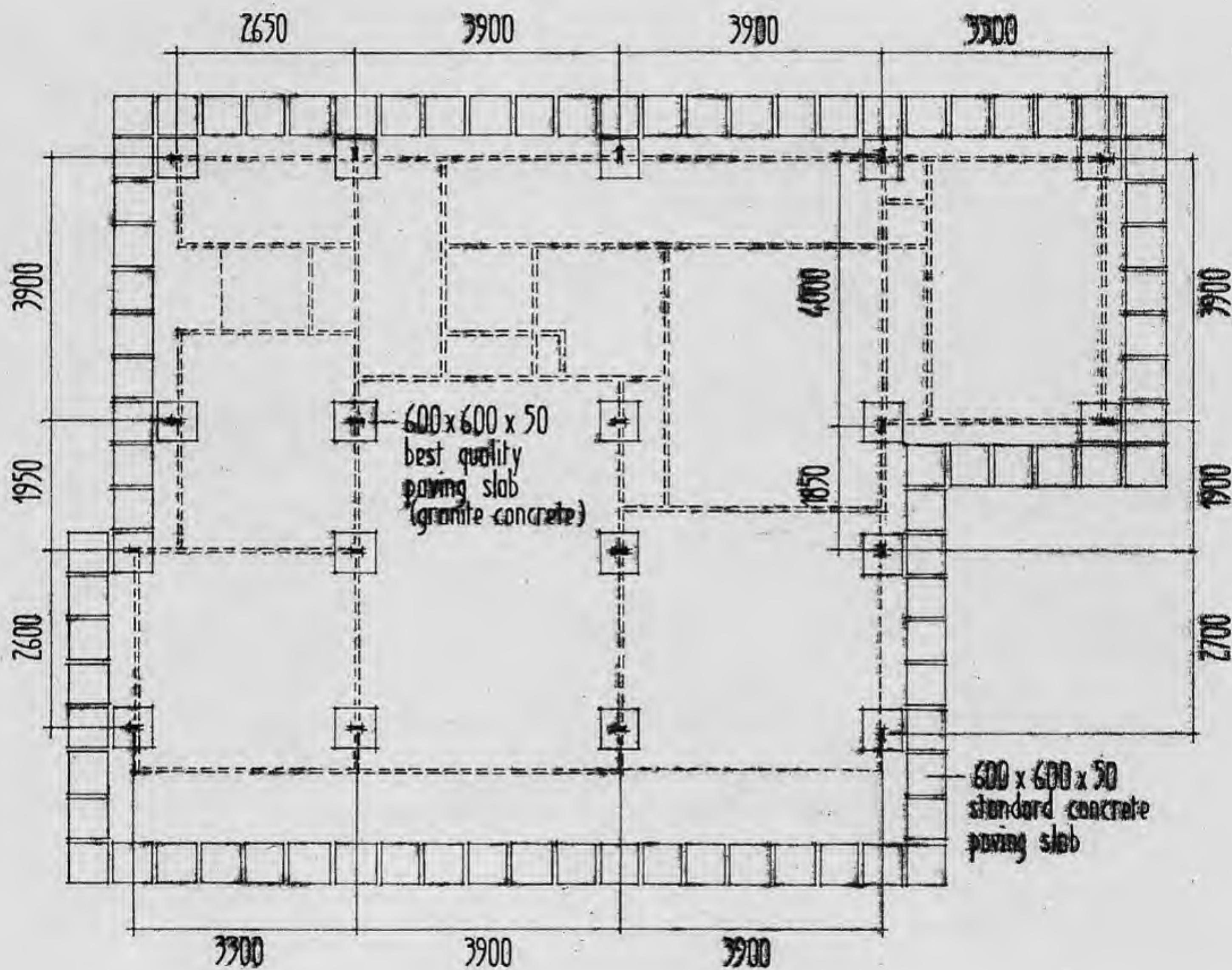


EAST

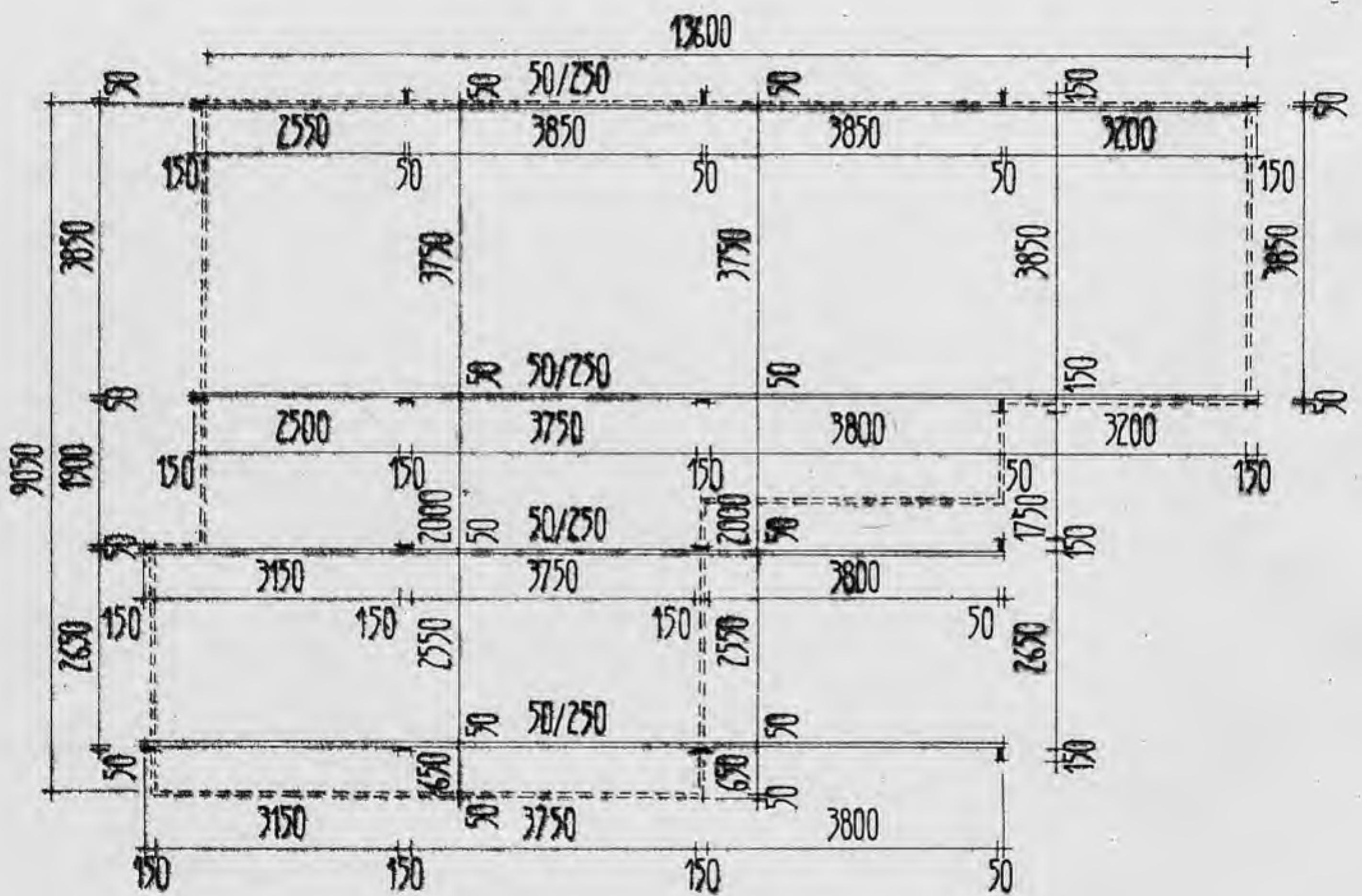


NORTH

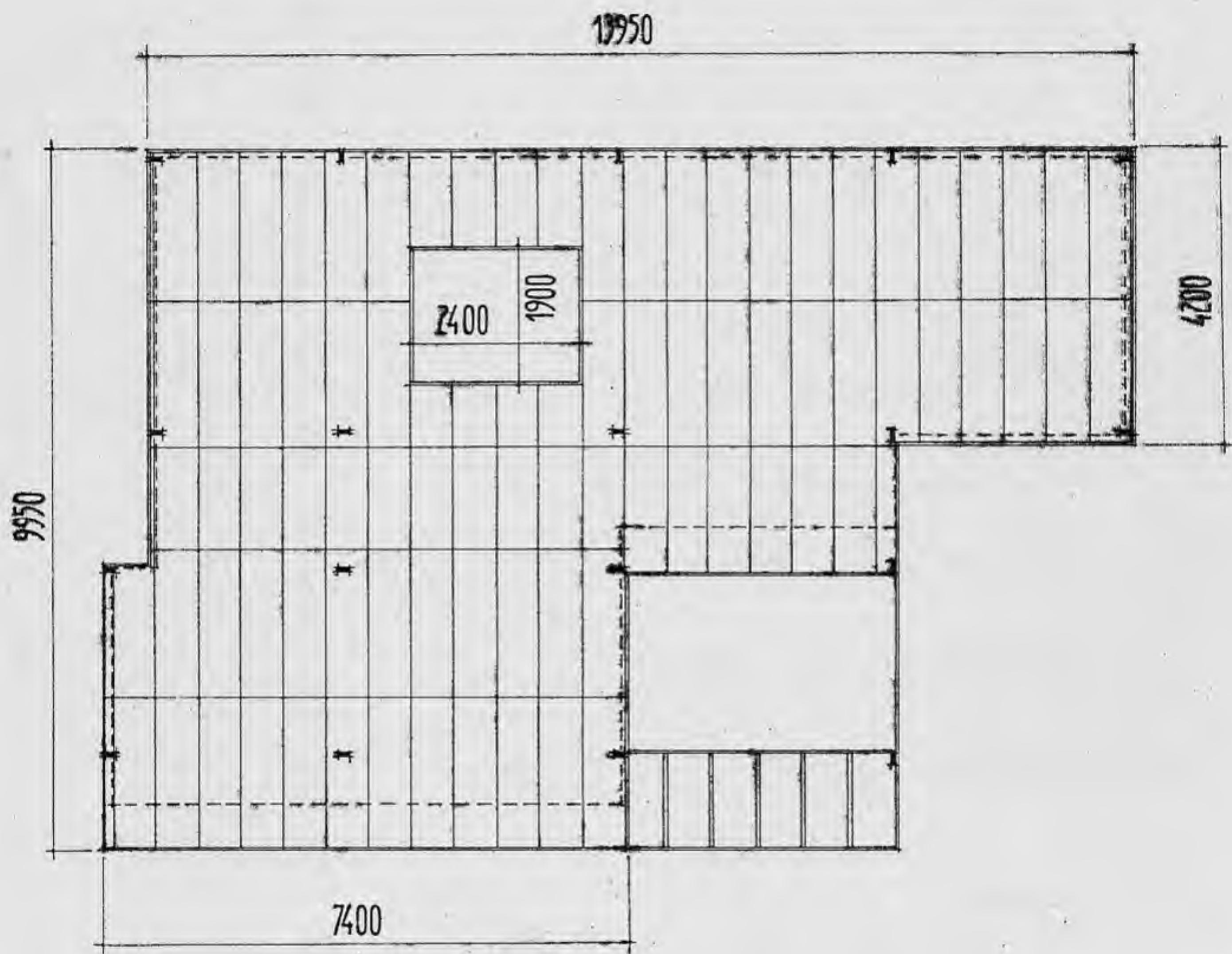
FOUNDATIONS PLAN  
SCALE 1:100



**FLOORBEAMS PLAN  
SCALE 1:100**



ROOFBOARDS PLAN showing woodwool slabs layout  
SCALE 1:100



6/14

ROOF SECTIONS  
SCALE 1:50

D D 250 250

600 600 600 600

100 100 100 100

375 375 375 375

200 200 200 200

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200 200 200 200

200 200 200 200

200 200 200 200

bedroom

200

50

bedroom

200

50

bathroom

1900

50

hall

1250

50

porch

250

50

WC

1200

50

hall

1250

50

bedroom

200

50

passage

3850

50

hall

2550

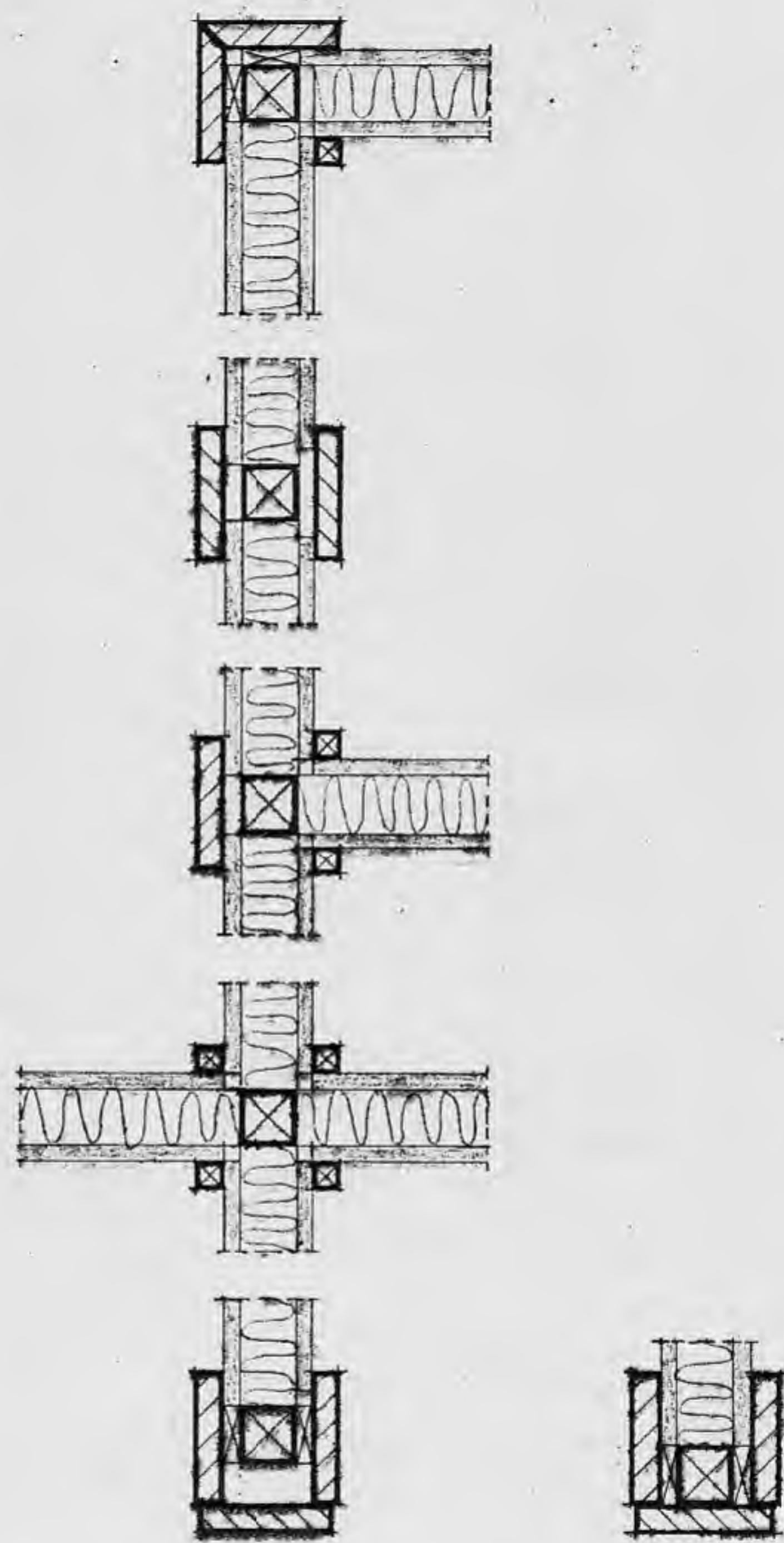
50

store

250

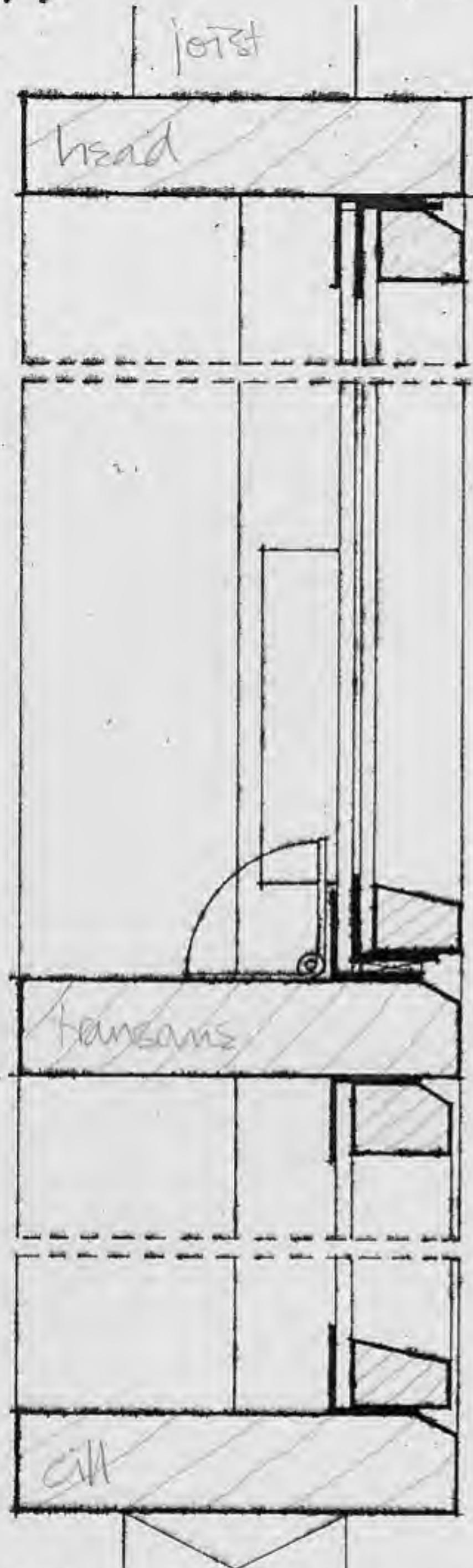
50

PARTITION DETAILS  
SCALE 1:5



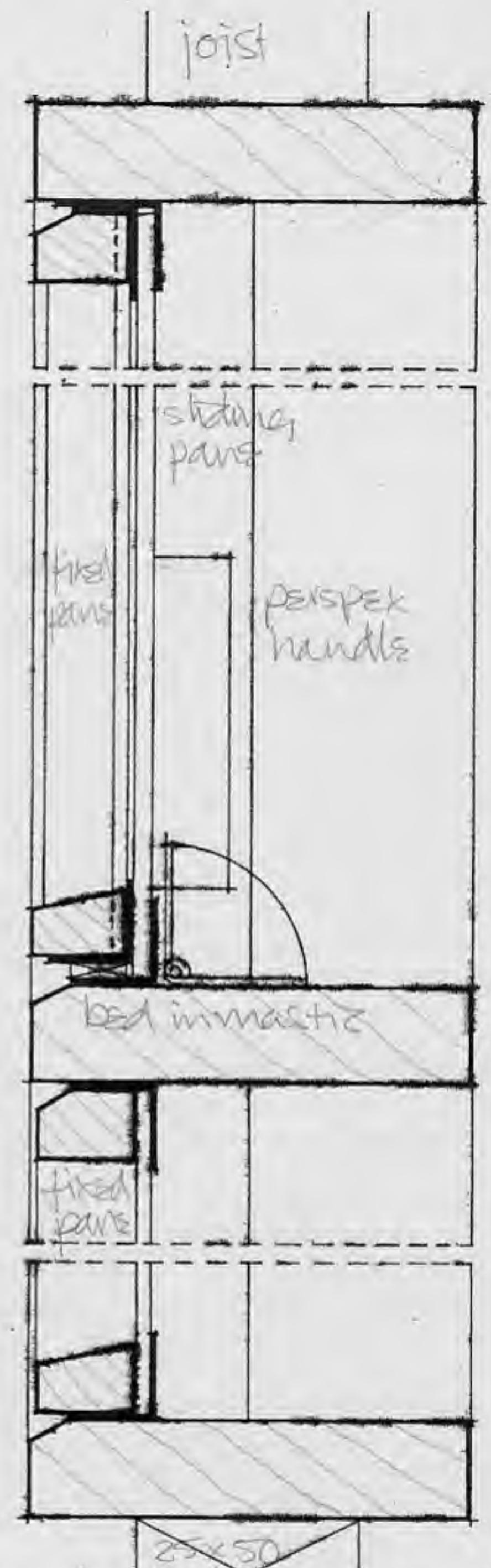
# WINDOW DETAILS

SCALE 1:5



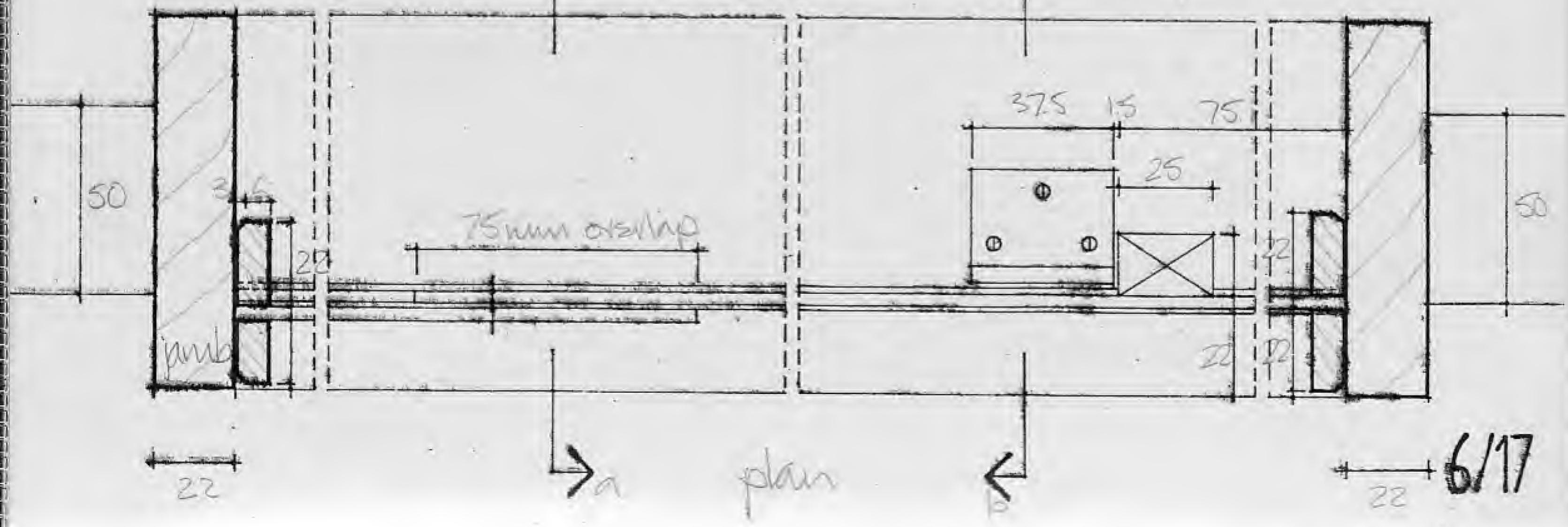
Section a-a

a

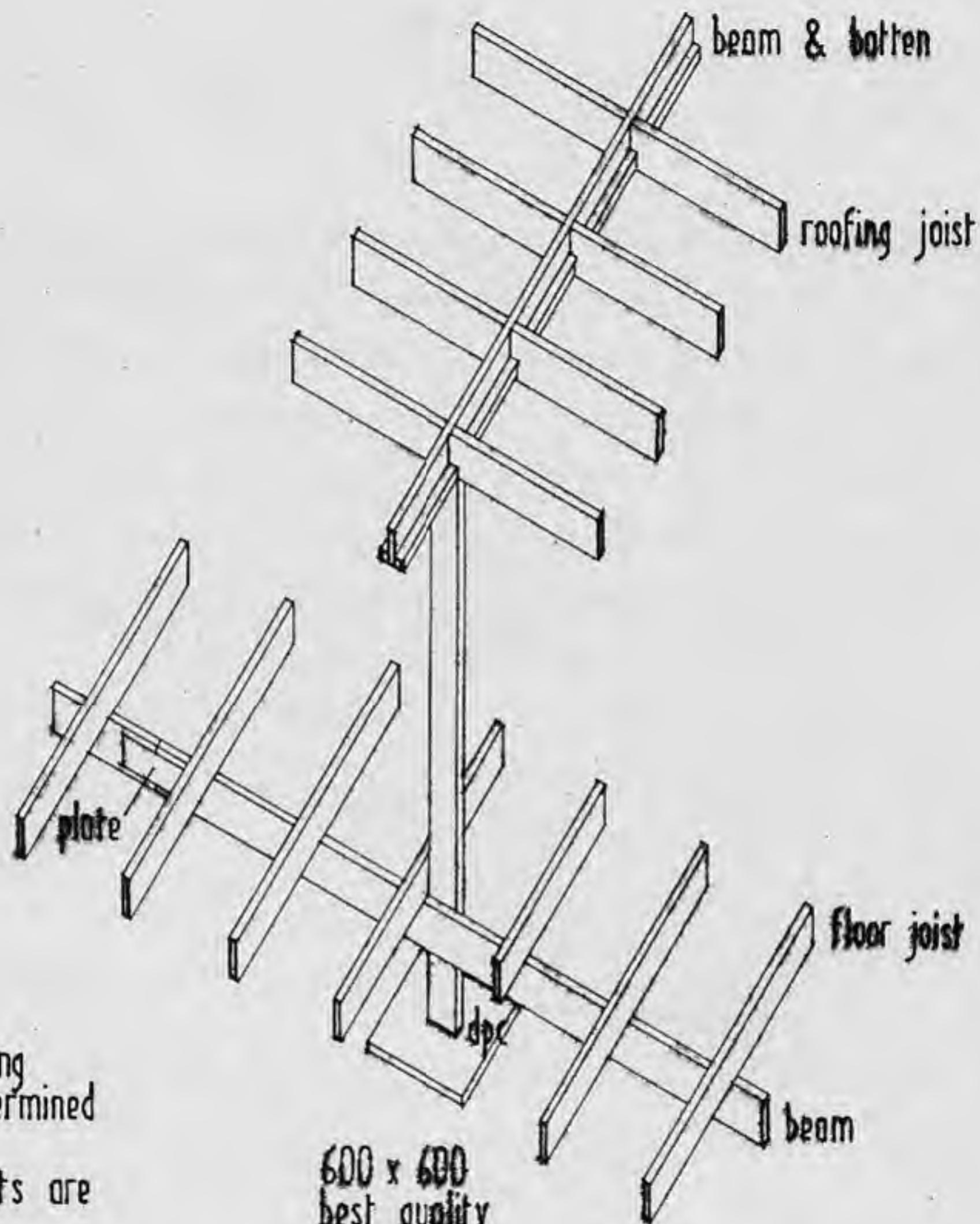


Section b-b

b



FRAMING KEY  
SCALE 1:50



NOTE : all sections of framing  
members to be determined  
by calculation.  
beam posts & struts are  
bolted together.  
Panavista or other plates to  
be used for butt-jointing.

## SEQUENCE OF ERECTION AND ASSEMBLY

### Foundations

Construct piers of dimensions as shown on the drawings and of a minimum depth of 900mm in 1:2:4 concrete and bed on top, before the concrete is fully cured, best quality concrete paving slabs 600mm by 600mm by 50mm thickness well-levelled and projecting 50mm above the level of the site using a 1:1:2 concrete bed.

### Perimeter paving

Bed in clean sand 600mm by 600mm by 50mm best quality paving slabs as before to enclose perimeter of building as shown on the drawing. Start with bedding the slabs in front of the slabs of the foundation piers and fill in the spaces between them with evenly-spaced slabs likewise bedded.

### Strip off topsoil

Upon completion of the perimeter paving strip off the existing top soil and deposit where directed all to a depth of 100mm. Fill back with loosely-laid well-distributed clean gravel (19mm minimum) without any admixture of sand up to the level of the underside of the paving slabs.

### Framing

Carefully mark on the paving slabs of the posts all centres as shown and check their accuracy of position. Note in particular the relationship of posts and infilling walls and consult for this purpose also the catalogue of elements (no.II). Place under each post a 50mm by 150mm sheet of 2.25 - 2.75 kg lead.

All posts and beams to be pre-drilled before erection; wherever possible drill holes to be staggered. Bolts to be galvanised or sheradised 9mm min.dia; for longer spans 12.5mm dia. bolts to be used. Stand up and plumb frames using temporary bracing; likewise pin some floor joists prior to final fixing to the beams (CE nos.IV, V). Follow carefully the building plans and note which beams do not project to the front faces of the posts.

Fix the roof beams to the posts as shown (CE nos.IV, V) observing carefully which beams are to be bolted to the posts and which are to be checked out to provide seating on top of the posts; this applies chiefly to the end frames and where roof beams project to provide overhangs. Note carefully all instances where secondary posts are to be used which are to be attached at floor level either to beams or joists by bolting and which serve to reduce spans of roofing beams or as supports for these; the latter case occurs with cantilever constructions. Consult the building plans for this purpose; particularly projecting parts of the building where such cantilever structures are employed. Fix to the roofing beams joist battens (CE no.V) which are to receive the roofing joists which must be checked out as shown (CE no.V) and fix some of these joists temporarily by pinning to stiffen the structure prior to final plumbing.

Select all members of the frame from the timber store on site in strict accordance with the List of Materials with particular attention to columns 2 - 5. (All lengths are listed in the lengths in which they will be required e.g. to the nearest 300mm and failure to observe the description col.2 will result in loss of structural members for the framework).

**LIST and QUANTITY of MATERIALS for ASSEMBLY KIT**

PROJECT / ADDRESS / CLIENT :

LIST and QUANTITY of MATERIALS for ASSEMBLY KIT

page 7

PROJECT / ADDRESS / CLIENT :

material	description & location	grade	section or unit size	length & quantity or total area	finish	price
joinery timber (softwood)	<p>stops to entrance and external doors</p> <p>25x100</p> <p>25x63 batten</p> <p>25x125 panel</p> <p>ext 100</p> <p>aluminium handle</p> <p>cill</p> <p>100</p> <p>100</p> <p>external doors</p> <p>fascia</p>	2	12x50	/	PREPARED	/
windows (softwood)	<p>+1250+</p> <p>+2550+</p> <p>+1700+</p> <p>&lt;1250&gt; &lt;2550&gt;</p> <p>&lt;3200&gt;</p> <p>&lt;100&gt;</p> <p>jamb</p> <p>2700</p> <p>100</p> <p>head, cills + transom</p> <p>2500</p> <p>50</p> <p>bottoms below heads of half-windows</p> <p>2500</p> <p>50</p> <p>beads to heads of windows</p>	2	25x100		PREPARED	/

# DUISBURG SPRAWL HOUSING

Client  
Domestic user

Sites  
Low density, suburban.

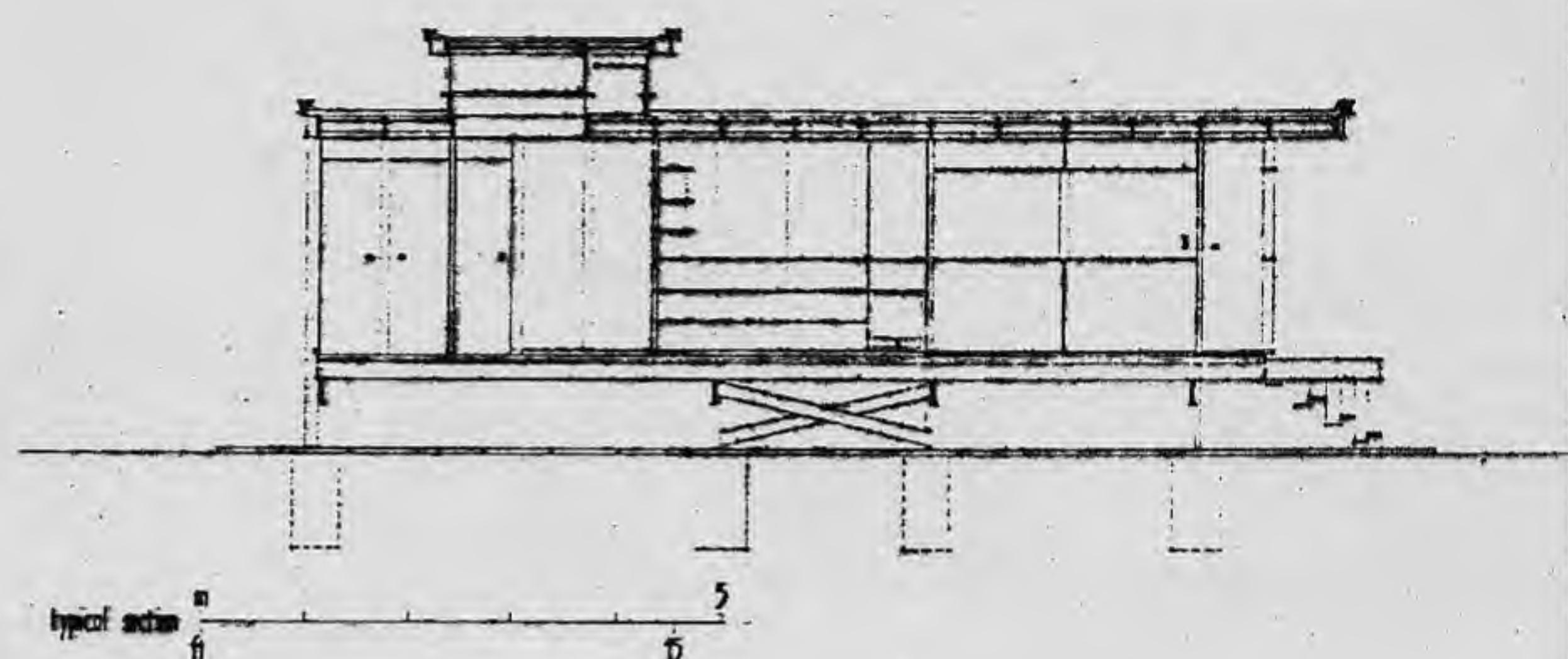
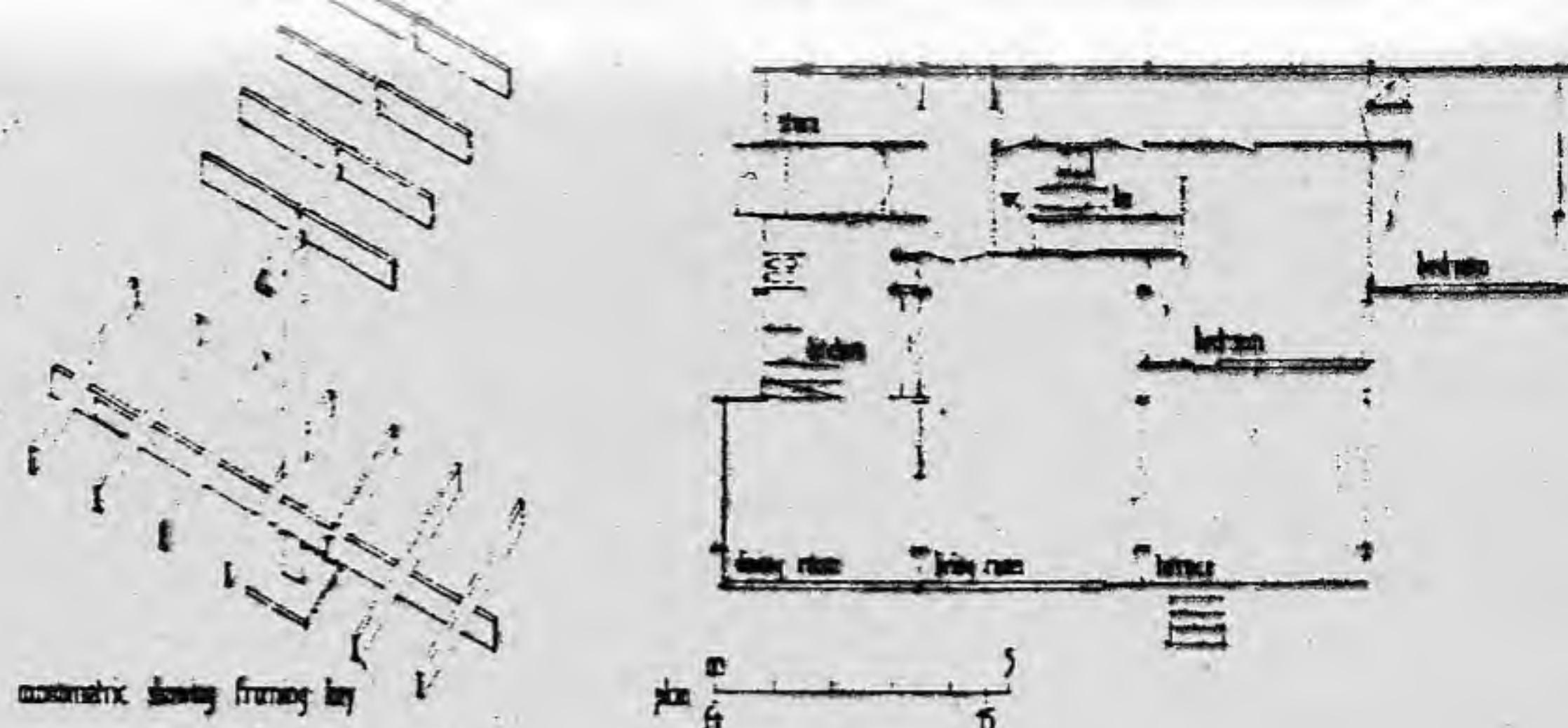
Accommodation  
Modular grid based on range of dimensionally co-ordinated modular panels  
variation in design - building can be planned by client

Structure  
Timber frame, unit easily-available manufactured parts - interchangeable.

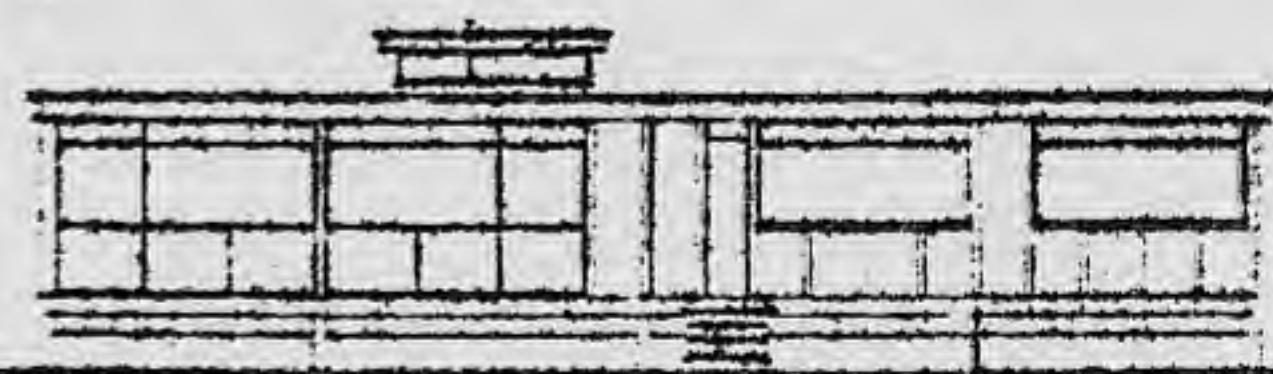
Services  
Comprehensive responsive system -  
mains/static, packaged/mobile.

Cost  
timber frame:  
mobile element:  
substructure:  
plot development and communal aspects  
(with parts catalogue/design manual)

Contract  
Start late 1979,  
finish (initial design) mid 1980,  
projected life 20-40 years.  
Consulting engineers -  
quantity surveyors -  
operator of contractors - Domeshift and  
individual/group users.



sections



Symbol	Meaning
—	ring beam
- - -	deck floor
—	brickwork
—	beam
x	junction
—	ridge beam
—	rafters

DUISBURG SPRAWL  
(SPRAWL)  
HOUSING

796/A35/1

